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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,535	02/27/2002	Steven Danyluk	63073/106	7710
27433	7590 05/04/2004		EXAMINER	
FOLEY & LARDNER 321 NORTH CLARK STREET			KALAFUT, STEPHEN J	
SUITE 2800			ART UNIT	PAPER NUMBER
CHICAGO, I	L 60610-4764		1745	-
			DATE MAILED: 05/04/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summary	10/084,535	DANYLUK ET AL.			
concertation culturally	Examiner Charles 4	Art Unit			
The MAILING DATE of this communication app	Stephen J. Kalafut	orrespondence address			
Period for Reply		on appriating address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 23 February 2004.					
2a)⊠ This action is FINAL . 2b)☐ This					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4-6 and 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Brown (US 5,078,533).

Brown discloses a contact potential difference battery (10) made of several cells in which plates (19, 21) made of metals of different work functions surround a space (25) filled with ionizable gas. The ions in the gas move toward the two electrodes due to their difference in work function. See column 3, line 24 through column 4, line 40. The gas may be ionized by radiation from a radioactive source, such as a beta-emitter (column 4, lines 55-60). The battery is connected to a load (17), and not to any other voltage bias source. The gas may be radioactive and thus self-ionizing, one example being the noble gas radon (column 4, lines 41-49, column 5, lines 1-10). Nitrogen may also be used (figure 2). The current may be increased by increasing gas pressure (column 4, lines 50-52, figure 2). Since the two metals with different work functions and an ionizable gas are disclosed, they would form the capacitive circuit recited by claim 9. The battery may also provide long-term current, as in years without any need for recharging (column 2, lines 58-62).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brown (above) in view of Mallory *et al.* (US 4,245,174).

The pertinent points of Mallory *et al.* are of record, in paper no. 6, pages 3 and 4. It would be obvious to use the Americium disclosed by Mallory *et al.* to provide the beta-radiation desired by Brown (column 4, lines 55-60).

Claims 7, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown (above) in view of Uber *et al.* (US 6,414,318), cited in paper no. 6.

These claims differ from Brown by reciting that the present battery provides power to microelectronic components. Uber *et al.* discloses microelectronic components, which may be powered either by a battery, or by a device which produces a work function difference between two metals (column 11, lines 15-31). Thus, Uber *et al.* teach a use for the battery disclosed by Brown, as an alternative to a common electrochemical battery. For this reason, it would be obvious to use the contact potential difference battery of Brown to power the microelectronic components of Uber *et al.*

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claim 8 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The originally filed disclosure does not mention the changeable gas pressure and resulting proportional increased current output, recited in this claim as now amended.

Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection. Although Uber *et al.* do not, as applicants point out, disclose a contact potential difference battery which is not connected to any other voltage bias source, Uber *et al.* are still available for teaching such a battery as an alternative to a normal battery as a power source.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Kalafut whose telephone number is 571-272-1286. The examiner can normally be reached on Mon-Fri 8:00 am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

sjk

STEPHEN KALAFUT PRIMARY EXAMINE GROUP